# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 01/03/2022 09:11 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 12/16/2021 09:10 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 32272 | Expiration Date: | 09/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124387 | -1 | 3.29 | 124172 | 3.31 |
| Blue | F | SSC | 125000 | 123804 | -1 | 3.93 | 124258 | 3.87 |
| Blue | E | FITC | 14284 | 13910 | -3 | 3.94 | 389 | 14.12 |
| Blue | D | PE | 23919 | 23532 | -2 | 3.66 | 557 | 11.38 |
| Blue | B | PerCP-Cy5-5 | 31332 | 30697 | -3 | 4.37 | 877 | 15.91 |
| Blue | A | PE-Cy7 | 22272 | 21986 | -2 | 6.21 | 454 | 32.53 |
| Red | C | APC | 47768 | 46943 | -2 | 2.74 | 1614 | 11.86 |
| Red | A | APC-Cy7 | 25313 | 24476 | -4 | 3.17 | 693 | 12.35 |
| Violet | B | V450 | 7085 | 6835 | -4 | 4.60 | 478 | 11.73 |
| Violet | A | V500 | 26969 | 26059 | -4 | 4.23 | 892 | 8.92 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23338 | 4.68 | 588 | -1 | N/A | N/A | Pass |
| Blue | F | SSC | 55095 | 3.42 | 525 | 4 | N/A | N/A | Pass |
| Blue | E | FITC | 58 | 54.24 | 496 | -5 | 0.0402 | 32 | Pass |
| Blue | D | PE | 109 | 40.43 | 493 | -4 | 0.3723 | 309 | Pass |
| Blue | B | PerCP-Cy5-5 | 136 | 43.24 | 583 | -5 | 0.0178 | 53 | Pass |
| Blue | A | PE-Cy7 | 74 | 85.53 | 630 | -5 | 0.0199 | 2 | Pass |
| Red | C | APC | 338 | 26.42 | 578 | -2 | 0.0259 | 145 | Pass |
| Red | A | APC-Cy7 | 127 | 36.35 | 551 | -4 | 0.0065 | 1749 | Pass |
| Violet | B | V450 | 81 | 46.21 | 454 | -9 | 0.0539 | 2007 | Pass |
| Violet | A | V500 | 105 | 31.13 | 465 | -9 | 0.0240 | 756 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 01/03/2022 09:11 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.99 | -31.57 | 1.05 |
| Blue | 20.35 | 16.28 - 24.42 | 1.28 | 1.02 - 1.52 | 0.00 | 0.00 | 1.43 |
| Red | 14.06 | 13.60 - 20.40 | N/A | N/A | 29.68 | 30.14 | 1.23 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 13721

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments